



## TEST REPORT

**Client:** Gabriel  
Hjulgagervej 55  
Postbox 59  
DK-9100 Aalborg  
Denmark

**Entry No:** 112962A

**Date received:** 13/09/2019

**Client's Description:** Fabric Sample MORPH Col.11101

**Test Required:** Tensile Strength and Tear Resistance in accordance with BS EN 14465 and BS 2543: 2004 Colour Fastness to Dry Cleaning, Water, Rubbing, Water spotting<sup>S</sup>, Stretch and Recovery<sup>S</sup>, Dimensional Stability to Dry cleaning.

**Conditioning:** In accordance with BS EN ISO 139: 2005 for a minimum of 24 hours at 65+/-4%, Relative Humidity, 20+/-2°C

**Date Tests Completed:** 30/09/2019

**Tensile Strength:** BS EN ISO 13934-1: 1999

Warp Way	<b>830 N</b>
Weft Way	<b>680 N</b>

**Tear Resistance:** BS EN ISO 13937-2: 2000

Torn across Warp	<b>112 N</b>
Torn across Weft	<b>95 N</b>

**Colour Fastness to Dry Cleaning:** BS EN ISO 105-D01: 2010

Staining on:	Acetate	<b>5</b>
	Cotton	<b>5</b>
	Nylon 6.6	<b>5</b>
	Polyester	<b>5</b>
	Acrylic	<b>5</b>
	Wool	<b>5</b>
Change in Colour		<b>5</b>

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*This is hereby certified to be a correct return of the tests made of the items referred to herein*

Claire Saville  
Technologist  
30<sup>th</sup> September 2019

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
  - ❖ Tests marked <sup>N</sup> in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
  - ❖ Tests marked <sup>F</sup> in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
  - ❖ Tests marked <sup>S</sup> in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
  - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
  - ❖ Uncertainty budgets for test methods contained within this report are available on request.
- This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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**Client:** Gabriel  
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**Colour Fastness to Water:** BS EN ISO 105–E01: 2013

Staining on:		
	Acetate	5
	Cotton	5
	Nylon 6.6	4-5
	Polyester	5
	Acrylic	5
	Wool	5
	Change in Colour	5

**Comments**

When compared with BS 2543: 2004 this sample of fabric satisfies the Colour Fastness to Water requirements

**Colour Fastness to Rubbing:** BS EN ISO 105–X12: 2016<sup>F</sup>

	<u>Staining</u>		<u>Change in colour</u>	
	<u>Dry</u>	<u>Wet</u>	<u>Dry</u>	<u>Wet</u>
Warp Way	5	4-5	5	5
Weft Way	5	4-5	5	5

**Note:** Change in colour is not a requirement of the method but was carried out at the request of the client.

**Colour Fastness to Rubbing with Foam Detergent:** BS EN ISO 105–X12: 2016<sup>F</sup>

	<u>Detergent</u>
Staining:	
	Warp Way 4-5
	Weft Way 4-5
Change in colour:	
	Warp Way 5
	Weft Way 5

**Note:** Change in colour is not a requirement of the method but was carried out at the request of the client.

**Colour Fastness to Water Spotting:** BS EN ISO 105–

E16:2007s

Grade

Inner circle of tested area: 5  
Outer periphery of tested area: 4-5

The water was absorbed after 30 minutes

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**Client:** Gabriel  
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**Stretch & Recovery:** BS EN ISO 14704-1: 2005 Method A Load

**27.5NS**

Time @ full extension	1 Min & 30 Mins	
Length	1 Min	30 Mins
Average %	99%	100%
Recovery		
Average % Residual Extension	1%	0%
Average % Stretch	4.3%	
Width	1 Min	30 Mins
Average %	99%	100%
Recovery		
Average % Residual Extension	1%	0%
Average % Stretch	7.0%	

**Dimensional Stability:** BS EN ISO 3175-2:2010: 2008 Dry cleaning

Length	-0.5%	%
Width	-0.5%	%

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Amended Report 112962A. This Report supersedes Test report 112962. Some of the results of the testing have been removed at the request of the client.